

of paragraphs. While the treatment is thus rather uneven a great variety of matter is presented in connection with the species that are considered in detail, covering general history, fossil birds and habits of specimens in the Washington "Zoo."—W. S.

The Food of Australian Birds.¹—Dr. J. B. Cleland presents a summary of investigations relating to the food of Australian Birds done by himself and Messrs. J. H. Maiden, W. W. Froggatt, E. W. Ferguson and C. T. Musson. The data is presented under the following headings: Broad Summary of Results, Detail Summaries and Verdicts on Individual Species, Food of Birds from the Botanical Aspect, List of Birds Feeding on Particular Foods, and Tabulated Results of Examination of the Contents of Stomachs and Crops Examined. In the summaries one finds nothing conveying an idea of the volume of food items, in the absence of which it is difficult to conclude just what are the important foods. Now that Professor W. E. Collinge of St. Andrew's University has adopted and championed the volumetric system of food analysis, it is to be hoped his colleagues in the British Dominions also will realize its advantages. In the discussion in the booklet reviewed the majority of the species are commended. The principal exceptions are: the Crow, Starling, and House Sparrows which for best results should be kept under strict control, the Silver-eyes, which must often be suppressed for the welfare of cultivated fruit, certain Parrots which destroy grain and the bee-eaters. Pigeons, Doves, Quails, most Waterbirds and the Honey-eaters are mentioned as having no marked economic significance.

Points of interest may be noted in connection with the lists of birds feeding on particular foods. The longest list, 73 species, is of birds feeding on ants, a group of insects that a certain school of biologists defines as "specially protected," the models for "mimicking" insects in all orders. Small comforts here for either the "mimics" or the biologists. Caterpillars and other stages of Lepidoptera are cited with 68 bird enemies, flies with 59 and grasshoppers and their allies with 35. Thrips are recorded from the stomachs of four species, probably a better list of enemies of these minute insects than could be made with present knowledge for birds of the United States. However, all of the other lists of birds feeding on weed seeds and groups of destructive insects could easily be exceeded from American records.—W. L. M.

The Ornithological Journals.

Bird-Lore.² XXI, No. 5. September–October, 1919.

William Brewster. By Frank M. Chapman. A beautifully written and appreciative sketch of his life and works.

The Spotted Sandpiper. By C. W. Leister.—An account of its home life with admirable photographs.

¹ Science Bul. No. 15, Dept. Agr. New South Wales, July, 1918, 112 pp.

² D. Appleton & Company, Harrisburg, Pa.

The Birds of Coblenz. By Perley M. Jenness.

A Visit with Cedar Waxwings. By F. N. Whitman.—Several remarkably good photographs of young and old.

The Warbler in Stripes. By H. E. Tuttle.—Good account of the feigning of injury by the parent Black and White Warbler.

The educational leaflet treats of the Turkey Vulture and is by T. Gilbert Pearson with a colored plate by Horsfall.

Bird-Lore. XXI, No. 6. November–December, 1919.

Notes from a Traveler in the Tropics. By F. M. Chapman.—V. Chile.

How Birds Can Take Their Own Pictures. By Dr. E. Bade.—Showing admirable results of his method.

Our Family of Flickers. By Anna R. Roberts.

A Winter Feeding Place for Birds. By Verdi Burtch.—With photographs of Longspur, Snow Bunting, etc.

Migration of N. A. Birds covers Jays and Nutcracker with plate by Fuertes and the bulk of the number is taken up with the Annual Report of the National Association of Audubon Societies which as usual is full of interest.

The Condor.¹ XXI, No. 5. September–October, 1919.

Autobiographical Notes. By Henry Wetherbee Henshaw.—Continuation of this interesting historical sketch which runs through the next number also.

Differential Sex Migration of Mallards in New Mexico. By Aldo Leopold.—Evidence to show that the females migrate before the males.

Description of a Twenty Year Series of Eggs of the Sierra Junco. By Milton S. Ray.—An exhaustive study of an extensive series of the eggs of this species illustrated by photographs of sets to show variation, similarity in coloration of two sets from the same pair, etc.

A Return to the Dakota Lake Region. By Florence Merriam Bailey, (continued in the next number).

Bird Notes from Southeastern Oregon and Northeastern California. By George Willett.—An annotated list covering for the most part observations at Malheur Lake, Harney County, Oregon. 139 species are mentioned and there are several photographs of nests and young birds.

The Wilson Snipe Nesting in Southern California. By Edward Wall.

Description of a New Subspecies of *Pipilo fuscus*. By Harry C. Oberholser.—*Pipilo fuscus aripolius* (p. 210) from the middle portion of the Lower California Peninsula, type from San Pablo.

The Condor. XXI, No. 6. November–December, 1919.

Bird Notes from Saskatchewan. By H. H. Mitchell.

Notes on the Elegant Tern as a Bird of California. By Joseph Grinnell.—An uncommon and probably irregular fall visitant on the coast as far north as San Francisco Bay.

The Wilson Bulletin.² XXXI, No. 3. September, 1919.

Purple Martins at St. Marks, Florida. By John Williams.—Detailed

¹ W. Lee Chambers, Eagle Rock, Los Angeles Co., Calif.

² Geo. L. Fordyce, Youngstown, Ohio.

study of a colony giving dates of arrival, nesting, hatching of young, etc. for the past four years.

Twenty-four Hours in a Black Skimmer Colony. By B. R. Bales. — Another account of the Cobb's Island colony, [or a nearby one] already well described in Chapman's 'Camps and Cruises.'

Description of Another New Subspecies of *Lanius ludovicianus*. By Harry C. Oberholser.—*L. l. grinnelli* (p. 87), north central portion of the peninsula of Lower California, type from San Fernando.

Birds from a Sick Man's Window. By W. Elmer Ekblaw.— An interesting account of familiar species seen on the grounds of some University, the locality of which is not mentioned.

The Lure of the Godwit. By Gerald Alan Abbott.— Describes the habits of these interesting birds on the prairies of North Dakota and Minnesota.

The Wilson Bulletin. XXXI, No. 4. December, 1919.

Some Changes in the Summer Bird Life at Delavan, Wisconsin. By N. Hollister — A valuable comparison after a lapse of twenty years.

Birds of Wakulla County, Florida. By John Williams.

An Annotated List of the Land Birds of Sac County, Iowa. By J. A. Spurrell.

The Oölogist.¹ XXXVI, No. 9. September 1, 1919.

The Song of the Mockingbird. By Theodore R. Greer.— As heard in Aledo, Illinois.

The Oölogist. XXXVI, No. 10. October 1, 1919.

Nesting of the Black-billed Cuckoo. By G. W. Vosburgh.— At Columbus, Ohio.

The Oölogist. XXXVI, No. 11. November 1, 1919.

Ruffed Grouse [in Massachusetts]. By H. H. Johnson.

The Ibis.² XI, Series, I, No. 4. October, 1919.

On Birds from South Annam and Cochin China. Part II. Pycnonotidae — Dicaeidae. By Herbert C. Robinson and C. Boden Kloss.— 129 species are listed in this instalment of which the following are described as new, *Hemixus tickelli griseiventer* (p. 568); Langbian Peaks; *Xanthiscus flavescens sordidus* (p. 569), Arbre Broye, S. Annam; *Garrulax milleti* (p. 574), Dalat, S. Annam; *Trochalopteron yersini* (p. 575), Langbian Peaks; *Stactocichla merulina annamensis* (p. 577), Dran, S. Annam; *Pomatorhinus olivaceus annamensis* (p. 577) Dran; *P. tickelli brevirostris* (p. 578), Trang Bom, Cochin China; *Rimotor danjoui* (p. 578), Langbian Peaks; *Turdinulus epilepidotus clarus* (p. 582), Dalat; *Aleippe nipalensis annamensis* (p. 582), Dalat; *Pseudominla atriceps* (p. 583), Langbian Peaks; *Stachyris nigriiceps dilutus* (p. 584), Dran; *Siva sordida orientalis* (p. 587), Langbian Peaks; *Herpornis xantholeuca sordida* (588), Daban; *Cutia nipalensis legalleni* (p. 588), Langbian Peaks; *Pterythrus aralatus annamensis* (p. 589), Langbian Peaks; *Mesia argentauris cunhaci* (p. 591), Dalat; *Pnaëpyga pusilla annamensis* (p. 591), Langbian Peaks; *Cissa margarite* (p. 604), Langbian Peaks; *Egithaliscus annamensis* (p. 606), Dran; *Certhia dis-*

¹ R. Magoon Barnes, Lacon, Ill.

² Wm. Wesley and Son, 28 Essex St., Strand, London, W. C. 2.

color meridionalis (p. 609), Langbian Peaks; *Loxia curvirostra meridionalis* (p. 618), Dalat; *Æhopygga sanguinipectus johnsi* (p. 621), Dran; *Æ. gouldii annamensis* (p. 621), Langbian Peaks. Many of them are figured in beautiful colored plates.

Note on the Jays of Holland. By R. C. Snouckaert van Schauburg.

A List of the Birds of the Anglo-Egyptian Sudan, based on the Collections of Mr. A. I. Butler, Mr. A. Chapman and Capt. H. Lynes and Major Cuthbert Christy. Part III. Picidæ — Sagittariidæ. By W. L. Selater and C. Mackworth-Praed.

List of the Birds of the Canary Islands, with detailed references to the Migratory Species and the Accidental Visitors. Part IV. Anatidæ — Laridæ. By David A. Bannerman.

British Birds.¹ XIII, No. 4. September 1, 1919.

Observations on the Cuckoo. By Edgar Chance.— This is an extremely interesting account of an intensive study of the Cuckoos of a common in Worcestershire. Assuming that the eggs of each Cuckoo are always remarkably similar and are laid in the nests of the same species of bird in which the Cuckoo was reared, which seems to be pretty well proven, the author found that the Cuckoo under observation laid eighteen eggs in as many nests of the Meadow Pipit, on this common in the season of 1919. It seems that the Cuckoo removes one of the Pipit's eggs in case a full clutch is deposited before its visit to the nest. Mr. Chance is of opinion that the bird carries its egg to the nest of the foster parent in its bill but he has not yet been able to see the egg deposited although he spent a night on the common in the hope of solving this problem. The evidence presented seems to show that the Cuckoo locates every nest of the species upon which it is parasitic, that has been built in the district which it covers, and lays an egg about every two days until each nest is supplied; the number of eggs being thus dependent upon the number of nests.

British ornithologists have a most interesting problem before them in ascertaining the exact life history of this peculiar bird. Why do not some of our American bird students set about solving the same problem in the case of the Cow Bird? If the great army of egg collectors desire to demonstrate that there is really some science in their hobby here is their opportunity.

The "British Birds" Marking Scheme. By H. F. Witherby.— In spite of the war no less than 5,937 birds were ringed during 1918, bringing the grand total of ten years up to 87,584.

British Birds. XIII, No. 5. October 1, 1919.

Some Habits of the Sparrow Hawk. By J. H. Owen. (7) The effects of sunshine.— Excellent photographs.

Numerous notes on the habits of the Cuckoo.

British Birds. XIII, No. 6, November 1, 1919.

The Black-necked Grebe. By Oliver G. Pike. Account of a nesting at Tring with a wonderful series of photographs of the nest and bird under various circumstances.

¹ Witherby & Co., 326 High Holborn, London.

Some Points in the Sexual Habits of the Little Grebe, with a Note on the Occurrence of Vocal Duets in Birds. By J. S. Huxley.

Avicultural Magazine.¹ X, No. 11. September, 1919.

Further Notes on Birds in the War Area and Beyond. By Capt. B. Hamilton Scott.

Bird-Life in 1918. By Allen Silver.— An interesting summary of the birds observed in England during the year. [Continued.]

Avicultural Magazine. X, No. 12. October, 1919.

Eggs and Nestlings. By Graham Renshaw.— Importance of preserving such specimens in the aviary.

Avicultural Magazine. X, No. 13. November, 1919.

Regularity in Moulting. By E. M. Knobel.— Dates of shedding tail feathers by an Alexandrine Parrot, for a period of five years.

The Emu.² XIX, Part 2. October, 1919.

The Allied Buff-rumped Tit-Warbler (*Geobasiliscus hedleyi rosinae*). By Capt. S. A. White.— With a colored plate of this recently discovered bird.

The Eastern Palearctica and Australia. By Robert Hall.— An account of birds seen in northern Siberia.

A Trip to the National Park of Tasmania at Mount Field. By Clive E. Lord.— This park which is also a bird sanctuary has an area of 38,500 square miles. The paper is illustrated by several views and there is an annotated list of the birds observed.

Material for a study of the Megapodiidae. By R. W. Shufeldt.— With a number of illustrations from photographs of eggs and skeletons.

The Rosella Parrot (*Platycercus eximius*): a Sketch. By A. J. Campbell.

Birds Observed about the Lighthouse, Puysegur Point, Invercargill, N. Z. By R. Stuart-Sutherland.

Interesting photograph by H. A. Purnell of a Mound Builder's nest with eggs *in situ*.

The South Australian Ornithologist.³ IV, Part 3. July, 1919.

Notes from the Lake Frome District. By J. Neil McGilp.

Regent Honey-eaters — A Visit to the Adelaide Plains. By J. W. Mellor.

Revue Française d'Ornithologie.⁴ XI, No. 123. July, 1919. [In French.]

An Inquiry on the Vision of Birds. By Dr. A. Rochon-Duvigneaud. [Continued in the next number.]

The Common Bee-eater in Vendée. By E. Seguin-Jard.

Revue Française d'Ornithologie. XI, No. 124-125. August-September, 1919. [In French.]

How Does a Bird Recognize and Return to its Nest? By F. Cathelin.

Der Ornithologische Beobachter.⁵ XVI, Part 7. April, 1919.

The Great Curlew. By H. Fischer-Sigwart.— Tables of migration dates, nesting etc. in Switzerland. [In German.]

¹ Stephen Austin & Sous, 5 Fore St., Hertford, England.

² Witherby & Co., 326 High Holborn, London.

³ F. M. Angel, 70 W. D. Wells, Grenfell St., Adelaide, Australia.

⁴ A. Menegaux, 55 Rue de Buffon, Paris.

⁵ A. Hess, Spitalgasse 28, Bern, Switzerland.

Der Ornithologische Beobachter. XVI, Part II. August, 1919. [In German].

Daines Barrington. An Apparently Forgotten Student of Bird Song. By Hans Stadler.

The Migration of the Storks through Alsace and Loraine. By Walther Bachmeister.

Der Ornithologische Beobachter. XVI, Part 12. September, 1919. [In German.]

Nauman's Thrush. By Alb. Hess.

On Our Knowledge of the Siberian Thrush. By H. Gengler.

Ornithologisches Jahrbuch.¹ XXX, Heft 1-6. January-December, 1918. [In German.]

Ornithology of Syrmia [Hungary]. By J. Gengler.

Ornithology of Kapnu in Pingsgau [Austria]. By E. P. Tratz.

Bird Life of Tullu near Vienna. By K. Obermayer.

The Life Histories of Our Grouse. By M. Merk-Buchberg — "*Tetrao urogallus*, *T. tetrix* and *T. bonasia*."

El Hornero.² I, No. 4. September, 1919. [In Spanish.]

The Lariformes of the Republic of Argentina. By R. Dabbene.

On the Stomach Contents of Some Birds. By C. A. Marelli.

Glaucidium nanum. A Rare Case of Mimicry. By J. Koslowsky. Its attitude at rest makes its markings protective against its usual background.

Notes on a Collection of Birds from the Island of Martin Garcia. By R. Dabbene.

The Fantastic Ornithology of the Conquistadors. By Anibal Cardoso.

Birds New to Paraguay. By A. Winkelreid Bertoni. Fifteen species mentioned.

Birds of the Comune of Nuevas. By R. Dabbene.

Brief Notes on the Nests and Eggs of Some Birds of the Cordillera de Mendoza. By C. S. Reed.

Notes on the Nests of the Ovenbirds. By M. Doello-Jurado.— With illustrations.

Ornithological Articles in Other Journals.³

NOTE.—The Editor would be very grateful to authors if they would send him copies of such of their papers as are published in Proceedings of Societies, or other journals not exclusively devoted to Ornithology, in order that they may be promptly noticed in these columns. Unless this is done many papers are sure to be overlooked and their notice very much delayed. He would also regard it as a favor if his attention were called to omissions of this sort, by the readers of 'The Auk.' Only by such coöperation can the review of literature be made reasonably complete.

¹ Anton Pustet, Salzburg, Austria.

² Pedro Serie, Secty S. O. P., Musco Nac. de Hist. Nat. Buenos Aires.

³ Some of these journals are received in exchange, others are examined in the library of the Academy of Natural Sciences of Philadelphia. The Editor is under obligations to Mr. J. A. G. Rehn for a list of ornithological articles contained in the accessions to the library from week to week.